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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,973	11/18/2005	Toshio Kitamura	14875- 142US1	5916
FISH & RICHA		EXAMINER		
P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			OUSPENSKI, ILIA I	
MINNEAL OLIS, MIN 33440-1022			ART UNIT	PAPER NUMBER
			1644	
			MAIL DATE	DELIVERY MODE
		•	08/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	
Office Action Summary		10/531,973	KITAMURA ET AL.	
		Examiner	Art Unit	
		ILIA OUSPENSKI	1644	
The MAI Period for Reply	LING DATE of this communication app	pears on the cover sheet with the c	orrespondence address	
WHICHEVER IS - Extensions of time I after SIX (6) MONT - If NO period for repl - Failure to reply with Any reply received I	O STATUTORY PERIOD FOR REPL'S LONGER, FROM THE MAILING Donay be available under the provisions of 37 CFR 1.1 HS from the mailing date of this communication. You is specified above, the maximum statutory period on the set or extended period for reply will, by statute by the Office later than three months after the mailing adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONED	J. lely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status		•		
2a) ☐ This actio 3) ☐ Since this	ve to communication(s) filed on <u>28 A</u> n is FINAL . 2b)⊠ This application is in condition for allowa accordance with the practice under <i>E</i>	action is non-final. nce except for formal matters, pro		
Disposition of Cla	ims			
4a) Of the 5) ☐ Claim(s) 6) ☐ Claim(s) 7) ☐ Claim(s) 8) ☑ Claim(s) Application Paper 9) ☐ The specif	ication is objected to by the Examine	wn from consideration. election requirement. er.	-vaminor	
Applicant r Replaceme	ng(s) filed on is/are: a) acc nay not request that any objection to the ent drawing sheet(s) including the correct or declaration is objected to by the Ex	drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 l	J.S.C. § 119	•		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of Referen 2) Notice of Draftspe	ces Cited (PTO-892) rson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da	ite	
	sure Statement(s) (PTO/SB/08)	5) Notice of Informal P 6) Other:		

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DETAILED ACTION

1. Applicant's preliminary amendment, filed 04/28/2005, is acknowledged.

Claims 1 – 13 are pending.

Restriction Requirement

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

- I. Claims 1-2, 4-6, and 8, drawn to a DNA molecule encoding a protein of SEQ ID NO:2, or comprising the coding region of SEQ ID NO:1; a vector and host cell comprising said DNA, and a method for producing said protein.
- II. Claims 1-2, 4-6, and 8, drawn to a DNA molecule encoding a protein of SEQ ID NO:4, or comprising the coding region of SEQ ID NO:3; a vector and host cell comprising said DNA, and a method for producing said protein.
- III. Claim 3, drawn to protein of SEQ ID NO:2, or encoded by DNA of SEQ ID NO:1.
- IV. Claim 3, drawn to protein of SEQ ID NO:4, or encoded by DNA of SEQ ID NO:3.
 - V. Claims 7 and 11, drawn to an antibody to a protein of SEQ ID NO:2, or

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encoded by DNA of SEQ ID NO:1, and a method for producing a drug by mixing said antibody with a carrier.

- VI. Claims 7 and 11, drawn to an antibody to a protein of SEQ ID NO:4, or encoded by DNA of SEQ ID NO:3, and a method for producing a drug by mixing said antibody with a carrier.
- VII. Claims 9 10, drawn to a method of screening for a compound that binds to a protein of SEQ ID NO:2, or encoded by DNA of SEQ ID NO:1.
- VIII. Claims 9 10, drawn to a method of screening for a compound that binds to a protein of SEQ ID NO:4, or encoded by DNA of SEQ ID NO:3.
- IX. Claims 12 and 13, drawn to a method for producing a drug by mixing a compound obtained by the method of Group VII with a carrier.
- X. Claims 12 and 13, drawn to a method for producing a drug by mixing a compound obtained by the method of Group VIII with a carrier.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

3. The inventions listed as Groups I – X do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

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The inventions of Groups I – X are deemed to have no special technical feature that defines the contribution over the prior art of GenBank entry of Accession number AK045869 (1999; see entire document).

GenBank entry of Accession number AK045869 discloses a nucleic acid sequence which is 96.2% identical to the instantly recited SEQ ID NO:1. As such, the sequence of AK045869 is capable of hybridizing with DNA of SEQ ID NO:1 under stringent conditions, and therefore anticipates at least the instant claim 1.

Since Applicant's inventions do not contribute a special technical feature when viewed over the prior art, they do not have a single general inventive concept and so lack unity of invention.

- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ILIA OUSPENSKI whose telephone number is 571-272-2920. The examiner can normally be reached on Monday-Friday 9 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571-272-0841. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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ILIA OUSPENSKI, Ph.D.

Patent Examiner

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August 22, 2007